WHAT IS CLAIMED IS:

1	1. A data network for communicating data between a sender unit and a			
2	receiver unit, comprising:			
3	a core network including relay elements intercoupled by data links;			
4	a gateway element coupled to the core network and to the sender unit, the			
5	receiver unit being coupled to the core network, the gateway element having at least one information table identifying at least one route from the gateway element through the core			
6				
7	network to the receiver unit, including the status of the route.			
1	2. A method of management of data communication through a core			
	network between a sender unit and a receiver unit that includes the steps of:			
3 4 4 5 5 6 6 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10				
	1			
	predetermined communication resource;			
	coupling the sender and receiver units to the core network with a sending and			
	receiving gateway element, respectively;			
	allocating to the sending gateway element a first portion of the predetermined			
	communication resource of at least certain of the network links forming a communicative			
	route between the sending and receiving gateway elements, and maintaining at the sending			
11 12 12	gateway element information indicative of the allocated predetermined communication			
[]12	resource;			
13	receiving at the sending gateway element a request from the sender unit for a			
14	data transfer across the route, the request including a specification of requested			
15	communication resource;			
16	the sending gateway checking the information to grant the request if the			
17	communicating capacity of the communicative route is available.			
1	3. The method of claim 2, including allocating a second portion of the			
2	predetermined communication resource of the certain of the network links.			
1	4. The method of claim 3, wherein the step of checking the information			
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3				
4	*			
7				

gateway element with information indicative of the second portion.

10.

re-assigned to the first portion.

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decreasing the information indicative of the second portion by the part of the second portion

The method of claim 8, including the step of providing the receiving

The method of claim 9, wherein the step of re-assigning includes

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	11.	The method of claim 10, wherein the step of re-assigning includes		
increasing the information indicative of the first portion by the part of the second portion re-				
assigned to th	ne first p	ortion.		

12. A system for providing a QoS communication route from a first communicting entity to a second communicating entity through a core network that includes a plurality of network links, each network link having a predetermined communication resource, the system including;

a sending gateway element and a receiving gateway element respectively coupling the first and second communicating entities to the core network;

the sending gateway element a first portion of the predetermined communication resource of at least certain of the network links forming a communicative route between the sending and receiving gateway elements, and maintaining at the sending gateway element information indicative of the allocated predetermined communication resource;

receiving at the sending gateway element a request from the sender unit for a data transfer across the route, the request including a specification of requested communication resource;

the sending gateway checking the information to grant the request if the communicating capacity of the communicative route is available.